

FL FOC PN-B-980/1000 - FO cable



2313397

<https://www.phoenixcontact.com/us/products/2313397>

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PROFINET polymer fiber cable, duplex 980 µm/1000 µm, heavy-weight design, for installation in stationary systems and machines, by the meter, without male connector

Your advantages

- Universal installation cable for installation in stationary systems and machines
- For indoors
- 2.2 mm individual wires made from extremely hard-wearing polyamide (PA)
- Rugged polyurethane (PUR) outer sheath
- PROFINET type B
- Halogen-free, ozone, and UV resistant

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2313397 |
| Packing unit | 1 m |
| Minimum order quantity | 1 m |
| Note | Made to order (non-returnable) |
| Sales key | DN35 |
| Product key | DNC231 |
| Catalog page | Page 360 (C-8-2015) |
| GTIN | 4046356418515 |
| Weight per piece (including packing) | 42.74 g |
| Weight per piece (excluding packing) | 42 g |
| Customs tariff number | 85447000 |
| Country of origin | DE |

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Technical data

Notes

Note on application

| | |
|---------------------|-------------------------|
| Note on application | Only for industrial use |
|---------------------|-------------------------|

Product properties

| | |
|---------------------|-------------------------|
| Product type | Data cable by the meter |
| Number of positions | 2 |

Electrical properties

| | |
|---------------------|---------------|
| Transmission medium | Polymer fiber |
|---------------------|---------------|

Interfaces

| | |
|--------|----------|
| Signal | Ethernet |
| | PROFINET |
| | PROFIBUS |
| | Modbus |

Dimensions

External dimensions

| | |
|------------------------|--------|
| External diameter min. | 7.5 mm |
| External diameter max. | 8.5 mm |

Material specifications

| | |
|----------------------------|----------|
| Material (Separating film) | Aluminum |
| Outer sheath, material | PUR |

Cable/line

| | |
|---|--------------------------------------|
| Cable length | Free input (0.4 ... 100 m) |
| Cable weight | 49 kg/km |
| Cable abbreviation | J-V11Y 4Y2P 980/1000 160A 10 |
| External cable diameter | 8 mm |
| Outer sheath, material | PUR |
| External sheath, color | green |
| External sheath, strain relief elements | Non-metallic, aramide fiber |
| Single wire, material | PA |
| Individual wire diameter | 2.2 mm ±0.07 mm |
| Single wire, color | black and orange with arrow labeling |
| Bending radius, single element | 30 mm (Short-term) |
| | 30 mm (Short-term) |
| Bending radius, entire cable | 65 mm (Short-term) |
| | 65 mm (Short-term) |

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| | |
|---------------------------------------|--|
| Bending radius | 30 mm (Short-term) |
| | 30 mm (Permanent) |
| | 65 mm (Short-term) |
| | 65 mm (Permanent) |
| Tensile strength short-term/long-term | 1000 N / 100 N |
| Lateral pressure short term | 200 N/cm |
| Lateral pressure, long-term | 20 N/cm |
| Impact strength | 2 Nm / 10 x |
| 660 nm | 230 dB/km |
| Halogen-free | According to IEC 60754-2 |
| Resistance to oil | IRM 902 No.2, 100 °C, DIN VDE 0473-811-2-1 |
| Behavior in fire | 1.62 MJ/m (0.39 kWh/m) |

FO cable

| | |
|-------|----------------------------|
| Fiber | Polymer fiber, 980/1000 µm |
|-------|----------------------------|

Mechanical properties

| | |
|---------------------------------------|----------------|
| Tensile strength short-term/long-term | 1000 N / 100 N |
|---------------------------------------|----------------|

Environmental and real-life conditions

Ambient conditions

| | |
|---|--|
| Impact strength | 2 Nm / 10 x |
| Ambient temperature (operation) | -20 °C ... 70 °C |
| | -20 °C ... 70 °C (with quick mounting connector) |
| Ambient temperature (storage/transport) | -40 °C ... 80 °C |
| Ambient temperature (installation) | 5 °C ... 50 °C |
| Altitude | 5000 m |
| Resistance to oil | IRM 902 No.2, 100 °C, DIN VDE 0473-811-2-1 |

Standards and regulations

| | |
|-------------------|--|
| Behavior in fire | 1.62 MJ/m (0.39 kWh/m) |
| Resistance to oil | IRM 902 No.2, 100 °C, DIN VDE 0473-811-2-1 |

Mounting

| | |
|------------------|---------|
| cable layer type | Indoors |
|------------------|---------|

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-11.0 | 27061803 |
| ECLASS-12.0 | 27061803 |
| ECLASS-13.0 | 27061803 |

ETIM

| | |
|----------|----------|
| ETIM 9.0 | EC000034 |
|----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 26121600 |
|-------------|----------|

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Environmental product compliance

EU RoHS

| | |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

China RoHS

| | |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |

EU REACH SVHC

| | |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com